

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions of listing of claims, and listing of claims in the application.

Listing of Claims

1.-20. Cancelled

21. (New) An electrophoretic media comprising a solid monolithic material, wherein said solid monolithic material comprises aligned uniform fibrils ranging in diameter from micrometer-sized to nanometer-sized having anisotropic properties including conductivity, permittivity, optical attenuation, mechanical toughening and permeation, said monolithic material further having tailored capillary-like channels ranging in diameter from micrometer-sized to nanometer-sized thereby increasing the volumetric capacity of said monolithic material and said monolithic material having a surface chemistry capable of being tailored for various organic ligand grafting, and wherein said monolithic material has properties of a separation matrix in the direction of said aligned fibrils and further having anisotropic properties in regards to retention, interaction and separation of biomolecules.

22. (New) The electrophoretic media of claims 21, wherein the surface of said solid monolithic material is functionalized.